Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-6. (canceled)

7. (currently amended) A self calibrating network, comprising:

a first node to transmit a test signal and a network lock command, said network lock command ceasing nodes other than said first node and a second node from communicating on said network; and

[[a]] said second node to receive said test signal and to adjust a second node transceiver to optimize a transfer of data between said first node and said second node, said adjustment of said second node transceiver being based on at least one of available criteria comprising a noise measurement value, a propagation delay value and a bit rate error value;

wherein said network lock command prevents other nodes on said network other than said first node and said second node from affecting a calibration result experienced by said second node

~~wherein during said adjustment of said second node transceiver one of said first node or said second node issues a network lock command on the network, ceasing nodes other than said first node or said second node from communicating on the network~~.

8. (currently amended) The self calibrating network according to claim 7, wherein:

one of said first node ~~or~~ and said second node issues an unlock command on ~~the~~ said network, giving permission to all nodes on ~~the~~ said network to again begin communication.

9-14. (canceled)

15. (currently amended) A method for self calibrating a network, comprising:

transmitting a test signal and a network lock command from a first node, said network lock command ceasing nodes other than said first node and a second node from communicating on said network;

receiving said test signal by [[a]] said second node; and

adjusting a second node transceiver to optimize a transfer of data between said first node and said second node, said adjustment of said second node transceiver being based on at least one of available criteria comprising a noise measurement value, a propagation delay value and a bit rate error value;

wherein said network lock command prevents other nodes on said network other than said first node and said second node from affecting a calibration result experienced by said second node

~~issuing during said adjustment of said second node transceiver from one of said first node or said second node a network lock command on the said network; and~~

~~ceasing nodes other than said first node or said second node from communicating on the network~~.

16. (currently amended) The method for self calibrating a network according to claim 15, further comprising:

issuing from one of said first node ~~or~~ and said second node an unlock command on ~~the~~ said network, giving permission to all nodes on ~~the~~ said network to again begin communication.

17-22. (canceled)

23. (currently amended) A means for self calibrating a network, comprising:

transmitter means for transmitting a test signal and a network lock command from a first node, said network lock command ceasing nodes other than said first node and a second node from communicating on said network;

receiver means for receiving said test signal from said first node; and

adjust means for adjusting a second node transceiver to optimize a transfer of data between said first node and said second node, said adjustment of said second node transceiver being based on at least one of available criteria comprising a noise measurement value, a propagation delay value and a bit rate error value; ~~and~~

wherein said network lock command prevents other nodes on said network other than said first node and said second node from affecting a calibration result experienced by said second node

~~issue means for issuing during said adjustment of said second node transceiver from one of said first node or said second node a network lock command on the network, ceasing nodes other than said first node or said second node from communicating on the network~~.

24. (currently amended) The means for self calibrating a network according to claim 23, further comprising:

issue means for issuing from one of said first node ~~or~~ and said second node an unlock command on ~~the~~ said network, giving permission to all nodes on ~~the~~ said network to again begin communication.